

In the Claims:

1. (Currently Amended) A method for selecting a mutant miniature tomato plant having a desired trait, comprising the steps of:

(a) providing a population of miniature tomato plants, wherein said miniature tomato plants have the following characteristics: (i) reduced size in comparison to a commercial tomato plant of the same species; (ii) maturation to produce viable seeds or tubers at a plant density of at least ten-fold higher than standard growth conditions used for a commercial tomato plant of the same species; and (iii) capable of being crossed with a commercial tomato plant of the same species;

(b) generating mutant miniature tomato plants in said miniature tomato plant population by inducing mutagenesis of said miniature tomato plants via at least one of a T-DNA and a transposon sequence to produce a mutagenized miniature tomato plant population; and

(c) selecting a mutant miniature tomato plant having said desired trait within said mutagenized miniature tomato plant population.

2. (Cancelled)

3. (Currently Amended) The method of claim 1, wherein said inducing mutagenesis ~~mobile DNA sequence in step (b)~~ is via a T-DNA.

4-5. (Cancelled)

6. (Currently amended) A mutant miniature tomato plant population wherein a miniature tomato plant of said population has the following characteristics: (i) reduced size in comparison to a commercial tomato plant of the same species; (ii) matures to produce viable seeds or tubers at a density of at least ten-fold higher than standard growth conditions used for a commercial tomato plant of the same species; (iii) capable of being crossed with a commercial tomato plant of the same species; and (iv) carries a mutation induced by inducing mutagenesis via at least one of a T-DNA and a transposon sequence.

7-9. (Cancelled)

10. (Currently Amended) A method for producing a mutant population of a miniature tomato plant comprising the steps of:

(a) providing a population of miniature tomato plants, wherein said miniature tomato plants have the following characteristics: (i) reduced size in comparison to a commercial tomato plant of the same species; (ii) maturation to produce viable seeds or tubers at a plant density of at least ten-fold higher than standard growth conditions used for a commercial tomato plant of the same species; and (iii) capable of being crossed with a commercial tomato plant of the same species; and

(b) generating mutant tomato plants in said miniature tomato plant population by inducing mutagenesis of said miniature tomato plants via at least one of a T-DNA and a transposon sequence to produce said mutant population of said miniature crop plant cultivar.

11. (Cancelled)

12. (Currently Amended) The method of claim 10, wherein said inducing mutagenesis is via mobile DNA sequence in step (b) is a T-DNA.

13. (Currently Amended) The method of claim 12, wherein said miniature tomato plants are infected with *Agrobacterium*, thus producing multiple transformants wherein each transformant contains a T-DNA insertion in a different genomic position.

14-17. (Cancelled)